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RECEIVED CENTRAL FAX CENTER LC 0136 PUS)

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In the claims:

1. (Currently Amended) An active keyed locking system for a vehicle comprising:

a fixed position sensor statically generating a magnetic field;

a keyed actuated device comprising a field altering device; said a keyed actuated device altering said magnetic coupled to said field when placed in proximity thereto, said fixed altering device;

a non-mechanically operated position sensor proximate to said-keyed actuated device and generating a position signal indicative of the rotational position of said keyed actuated device based on the alteration of said statically generated magnetic field in-response to detected change in a magnetic field due to rotation of said-field altering device about an axis extending through-said field altering device; and

a controller electrically coupled to said position sensor and enabling at least one vehicle component in response to said position signal.

- 2. (Original) A system as in claim 1 wherein said keyed actuated device is a lock assembly.
- 3. (Original) A system as in claim 1 wherein said keyed actuated device is a key.
- 4. (Original) A system as in claim 3 wherein said key comprises a signal generator generating a transmission signal.
- 5. (Original) A system as in claim 3 wherein said key comprises a field-altering device.
- 6. (Original) A system as in claim 3 wherein said key comprises a magnetic device.
 - 7. (Original) A system as in claim 3 wherein said key comprises: a coil; and
- a transponder coupled to said coil and generating a transmission signal.

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- 8. (Original) A system as in claim 3 wherein said key generates an authorization signal, said controller enabling at least one vehicle component in response to said authorization signal.
- 9. (Original) A system as in claim 1 wherein said position sensor is selected from at least one of a series of magnets, a coil, a potentiometer, an encoder, an optical sensor, an infrared sensor, a hall effect sensor, a rotary variable differential transformer, a rotary variable inductance transducer, an angular position sensor, or a resolver.
- 10. (Original) A system as in claim 1 wherein said position sensor is coupled within a base station.
- 11. (Original) A system as in claim 1 wherein said controller enables a vehicle component selected from at least one of a vehicle accessory, an ignition, a door lock, and a vehicle system in response to said position signal.
- 12. (Original) A system as in claim 1 further comprising a recognition device recognizing a key and generating a recognition signal wherein said controller enables the active keyed locking system in response to said recognition signal.
- 13. (Original) A system as in claim 1 wherein said keyed actuated device is a lock assembly, said lock assembly comprising a key antenna.
- 14. (Currently Amended) An ignition enabling system for a vehicle comprising:
 - a lock assembly;
 - a fixed position sensor statically generating an electric field;
- a key having a transponder and engageable with said lock assembly such that rotation of said key within said lock assembly enables said transponder to alter said electric field, said fixed position sensor generating a position signal indicative of the rotational position of said key based on the alteration of said statically generated electric field; and

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a-position sensor sensing position of said key, in response to a change in an electric field proximate said lock assembly due to-actuation of said transponder about an axis extending through said transponder, and generating a position signal indicative of said position; and

a controller electrically coupled to said position sensor and enabling at least one vehicle component in response to said position signal.

15. (Currently Amended) A method of enabling at least one vehicle component through use of an active keyed locking system comprising:

statistically generating a actuating a keyed actuated device to alter a magnetic field using a fixed generated by a position sensor;

rotating a key actuated device within said magnetic field, said key actuating device including a field altering device;

monitoring alterations in said statically generated magnetic fields using said fixed position sensor;

determining the rotational position of said keyed actuated device using a in-response to detected change in said magnetic field and generating a position signal generated by said fixed position sensor, said position signal changing in response to said alterations in said statically generated magnetic field; and

enabling the at least one vehicle component in response to said position signal.

- 16. (Original) A method as in claim 15 further comprising: recognizing a key and generating a recognition signal; and enabling an active keyed locking system in response to said recognition signal.
- 17. (Original) A method as in claim 16 further comprising activating a base station in response to said key recognition.
 - 18. (Original) A method as in claim 15 further comprising: generating a first authorization signal;

generating a second authorization signal in response to said first

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verifying said second authorization signal; and generating said position signal in response to said verification.

19. (Original) A method as in claim 15 wherein determining position of said keyed actuated device comprises:

generating at least one base signal;

altering said at least one base signal via actuation of said keyed actuated device; and

generating said position signal in response to said alteration of said at least one base signal.

20. (Original) A method as in claim 19 wherein said at least one base signal is modulated using a modulation technique selected from at least one of amplitude modulation, frequency modulation, and phase modulation.